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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,990	10/18/2004	Iwao Fujisaki	ppa040non	5989

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EXAMINER	
KHAN, SUHAIL	

ART UNIT	PAPER NUMBER
2686	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/711,990	FUJISAKI, IWAO	
	Examiner	Art Unit	
	Suhail Khan	2686	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *18 October 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-13* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-13* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *18 October 2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *10/18/2004*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-10 and 12-13 rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6741841 to Mitchell.

Referring to **claim 1**, Mitchell discloses a transportation system comprising a cabin (col 6, lines 38-42, transporting occupants, mobile platform is interpreted as being the cabin), an internal antenna system, an external antenna system (col 6 line 64 – col 7 line 7, variety of internal and external sources, video source, antenna), an audiovisual outputting system (col 7, lines 46-50, display, visual, audio), and a computing system (col 6, lines 64-66, relay is interpreted as being the computing system); said computing system is connected to said internal antenna system and said external antenna system (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, antenna), said audiovisual outputting system is located in said cabin (col 7, lines 18-20, display can be a central display for all occupants of mobile platform), wherein a wireless signal produced in said cabin is received by said internal antenna system (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, antenna) and said external antenna system transfers said wireless signal outside of said transportation system in a wireless fashion (col 6

line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, broadcast station; also, col 4, lines 16-24, communication system, transmitting data; also, col 14, lines 50-55, cellular telephone link), and a TV data is received by said external antenna system and output from said audiovisual outputting system, under the control of said computing system (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, antenna; col 10, lines 47-51, television signals; col 7, lines 46-50, display, visual, audio).

Referring to **claim 2**, Mitchell discloses a transportation system comprising a cabin (col 6, lines 38-42, transporting occupants, mobile platform is interpreted as being the cabin), an internal antenna system, an external antenna system (col 6 line 64 – col 7 line 7, variety of internal and external sources, video source, antenna), an audiovisual outputting system (col 7, lines 46-50, display, visual, audio), and a computing system (col 6, lines 64-66, relay is interpreted as being the computing system); said computing system is connected to said internal antenna system and said external antenna system (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, antenna), wherein said external antenna system receives a wireless signal from outside of said transportation system in a wireless fashion and said internal antenna system transfers said wireless signal to said cabin (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, antenna), and a TV data is received by said external antenna system and output from said audiovisual outputting system, under the control of said computing system (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, antenna; col 10, lines 47-51, television signals; col 7, lines 46-50, display, visual, audio).

Referring to **claim 3**, Mitchell discloses a transportation system comprising a cabin (col 6, lines 38-42, transporting occupants, mobile platform is interpreted as being the cabin), an internal antenna system, an external antenna system (col 6 line 64 – col 7 line 7, variety of internal and external sources, video source, antenna), an audiovisual outputting system (col 7, lines 46-50, display, visual, audio), and a computing system (col 6, lines 64-66, relay is interpreted as being the computing system); said computing system is connected to said internal antenna system and said external antenna system (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, antenna), wherein a wireless signal produced in said cabin is received by said internal antenna system and said external antenna system transfers said wireless signal outside of said transportation system in a wireless fashion (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, broadcast station; also, col 4, lines 16-24, communication system, transmitting data; also, col 14, lines 50-55, cellular telephone link), thereby enables the passengers in said cabin to communicate in a wireless fashion with people or things which cannot directly be contacted with the communication devices they possess in said cabin (col 4, lines 16-24, communication system, transmitting data; also, col 14, lines 50-55, cellular telephone link), and a TV data is received by said external antenna system and output from said audiovisual outputting system, under the control of said computing system (col 6 line 64 – col 7 line 7, relay can generate data from a variety of internal and external sources; video source, antenna; col 10, lines 47-51, television signals; col 7, lines 46-50, display, visual, audio).

Referring to **claim 4**, Mitchell discloses the transportation system of claim 1, wherein said cabin comprises a plurality of seats (col 20, lines 45-55, seat).

Referring to **claim 5**, Mitchell discloses the transportation system of claim 1, wherein said internal antenna system and said external antenna system are capable to transfer a digital data (col 6 line 64 – col 7 line 7, variety of internal and external sources, video source, antenna; col 14, lines 15-20, digital).

Referring to **claim 6**, Mitchell discloses the transportation system of claim 1, wherein said internal antenna system and said external antenna system are capable to transfer a voice data and a non-voice data (col 6 line 64 – col 7 line 7, variety of internal and external sources, video source, antenna; col 6, lines 55-60, audio data, video data).

Referring to **claim 7**, Mitchell discloses the transportation system of claim 1, wherein said internal antenna system and said external antenna system are capable to transfer a text data (col 6 line 64 – col 7 line 7, variety of internal and external sources, video source, antenna; col 11, lines 35-40, email).

Referring to **claim 8**, Mitchell discloses the transportation system of claim 1, wherein said internal antenna system and said external antenna system are capable to transfer a software data (col 6 line 64 – col 7 line 7, variety of internal and external sources, video source, antenna; col 11, lines 35-40, internet, weather reports).

Referring to **claim 9**, Mitchell discloses the transportation system of claim 1, wherein said internal antenna system and said external antenna system are capable to transfer a visual data (col 6 line 64 – col 7 line 7, variety of internal and external sources, video source, antenna; col 6, lines 55-60, , video data).

Referring to **claim 10**, Mitchell discloses the transportation system of claim 1, wherein said transportation system thereby enables passengers in said cabin to communicate in a wireless

fashion with people or things which cannot directly be contacted with the communication devices they possess in said cabin (col 4, lines 16-24, communication system, transmitting data; also, col 14, lines 50-55, cellular telephone link).

Referring to **claim 12**, Mitchell discloses the transportation system of claim 1, wherein said transportation system is an airial transportation system (col 6, lines 38-42, aircraft).

Referring to **claim 13**, Mitchell discloses the transportation system of claim 1, wherein said transportation system is a ground transportation system (col 6, lines 38-42, automobile, bus, train).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 11 rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6741841 to Mitchell in view of U.S. Patent App. Pub. No. 2002/0072389 to Ward et al.

Referring to **claim 11**, Mitchell discloses the transportation system of claim 1 (col 6, lines 38-42, transporting occupants). Mitchell does not disclose that the transportation system is enabled to implement soft hand over between a first artificial satellite and a second artificial satellite in order to maintain a seamless connection with another device. The examiner maintains that the concept that the transportation system is enabled to implement soft hand over between a first artificial satellite and a second artificial satellite in order to maintain a seamless connection with another device was well known in the art as taught by Ward et al.

In a similar field of endeavor, Ward et al show soft handover from satellite to satellite (page 8, paragraph 114).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Mitchell to show that transportation system is enabled to implement soft and over between a first artificial satellite and a second artificial satellite in order to maintain a seamless connection with another device, as taught by Ward et al, the motivation being to provide multiple satellites for mobile communication services (Ward et al, page 1, paragraph 6).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patent is cited to further show the state of the art with respect to Communication in Transportation Systems

U.S. Pat. No. 6781968 to Colella et al.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suhail Khan whose telephone number is (571) 272-7910. The examiner can normally be reached on M-F from 8 am to 4:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold, can be reached at (571) 272-7905.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sk

Marsha D Banks-Harold

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